

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	15013	424/486 528/272 528/294 525/392 430/137.15 428/220	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2010/01/19 11:40
L2	15013	L1	US-PGPUB; USPAT	OR	ON	2010/01/19 11:40
L3	8	((SATOSHI) near2 (MUROUCHI)).INV.	US-PGPUB; USPAT	OR	ON	2010/01/19 11:41
L4	54	((TOSHIO) near2 (NAKAYAMA)).INV.	US-PGPUB; USPAT	OR	ON	2010/01/19 11:41
L5	7	((YOSHIKUNI) near2 (YAMADA)).INV.	US-PGPUB; USPAT	OR	ON	2010/01/19 11:41
L6	60	L3 or L4 or L5	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2010/01/19 11:41
L7	60	L6	US-PGPUB; USPAT	OR	ON	2010/01/19 11:41
L8	6841	428/421 523/219 524/494	US-PGPUB; USPAT	OR	ON	2010/01/19 11:41
L12	4	("5663276" "5767223" "6268419" "6296950").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/19 11:43
S1	7	((SATOSHI) near2 (MUROUCHI)).INV.	US-PGPUB; USPAT	OR	ON	2008/02/13 09:53
S2	51	((TOSHIO) near2 (NAKAYAMA)).INV.	US-PGPUB; USPAT	OR	ON	2008/02/13 09:53
S3	7	((YOSHIKUNI) near2 (YAMADA)).INV.	US-PGPUB; USPAT	OR	ON	2008/02/13 09:53
S4	57	S1 or S2 or S3	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 09:54
S5	13232	424/486 528/272 528/294 525/392 430/137.15 428/220	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 10:06
S6	707	S5 and (liquid near crystal)	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 10:15

S7	0	"200412862".did.	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 10:21
S8	0	"2004012862".did.	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 10:21
S9	1	"20040012862".did.	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 10:21
S10	1	"20010012862".did.	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 10:23
S11	898	(liquid near crystal) and benzoic and terephthalic	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 11:02
S12	38	(liquid near crystal) and benzoic and terephthalic and (dihydroxy near diphenyl)	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 11:08
S13	10	(liquid near crystal) and benzoic and terephthalic and (dihydroxy near diphenyl) and dielectric	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 11:52
S14	24	(liquid near crystal) and (injection near mold) and thickness and ((glass near fiber) same (diameter) same ((aspect near ratio) or length))	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 13:18
S15	25	(liquid near crystal) and (injection near mold) and thickness and ((glass near fiber) same (diameter)) and ((glass near fiber) same ((aspect near ratio) or length))	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 13:22
S16	0	"If a non-alkali glass is used in this invention"	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 13:40
S17	0	(molded near article).ab. and (liquid near crystal). ab. and (thickness near3 micro)	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 13:47

S18	27	(molded near article).ab. and (liquid near crystal). ab. and (thickness near3 (mm or milli))	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/02/13 13:47
S19	7	((SATOSHI) near2 (MUROUCHI)).INV.	US_PGPUB; USPAT	OR	ON	2008/08/28 13:24
S20	52	((TOSHI O) near2 (NAKAYAMA)).INV.	US_PGPUB; USPAT	OR	ON	2008/08/28 13:24
S21	7	((YOSHIKUNI) near2 (YAMADA)).INV.	US_PGPUB; USPAT	OR	ON	2008/08/28 13:24
S22	58	S19 or S20 or S21	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/08/28 13:24
S23	13662	424/486 528/272 528/294 525/392 430/137.15 428/220	US_PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2008/08/28 13:24
S24	13715	S19 S21 S20 S22 S23	US_PGPUB; USPAT; USOCR	OR	ON	2008/08/28 13:24
S25	0	("2001/0012862").URPN.	USPAT	OR	ON	2009/01/26 10:19
S26	40	liquid near crystal\$4 and hollow near (sphere or particle) and fracture	USPAT	OR	ON	2009/01/26 10:21
S27	1	"5348990".pn.	USPAT	OR	ON	2009/01/26 10:32
S28	1	"5378533".pn.	USPAT	OR	ON	2009/01/26 10:33
S29	1	"5882741".pn.	USPAT	OR	ON	2009/01/26 10:34
S30	1	"5348990".pn.	USPAT	OR	ON	2009/01/26 10:35
S31	17	("3316139"   "4134848"   "4417020"   "4429078"   "4556603"   "4692480"   "4837251"   "5124397"   "5126192").PN. OR ("5348990").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2009/01/26 10:35
S32	4	((3316139"   "4134848"   "4417020"   "4429078"   "4556603"   "4692480"   "4837251"   "5124397"   "5126192").PN. OR ("5348990").URPN.) and liquid near crystal	US_PGPUB; USPAT; USOCR	OR	ON	2009/01/26 10:37

S33	40	liquid near crystal\$4 and hollow near (sphere or particle or balloon) and fracture	USPAT	OR	ON	2009/01/26 10:49
S34	1	"5098781".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/26 10:50
S35	43	liquid near crystal\$4 near polyester and hollow near (sphere or particle or balloon)	USPAT	OR	ON	2009/01/26 11:08
S36	263	liquid near crystal\$4 near polyester and low with viscosity and injection	USPAT	OR	ON	2009/01/26 12:24
S37	42	liquid near crystal\$4 near polyester same low with viscosity and injection	USPAT	OR	ON	2009/01/26 12:24
S38	34	liquid near crystal\$4 near polyester same low with viscosity and injection and hydroxybenzoic	USPAT	OR	ON	2009/01/26 12:30
S39	30	liquid near crystal\$4 near polyester same low with viscosity and injection and hydroxybenzoic and terephthalic	USPAT	OR	ON	2009/01/26 12:30
S40	6	liquid near crystal\$4 near polyester same low with viscosity and injection and hydroxybenzoic and terephthalic and dielectric	USPAT	OR	ON	2009/01/26 12:30
S41	1	"6306946".pn. and injection	USPAT	OR	ON	2009/01/26 12:40
S42	5	("4169933"   "5710237").PN. OR ("6306946").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/26 12:58
S43	0	"5348990".pn. and inject \$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/26 14:13
S44	0	"5348990".pn. and injection	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/26 14:16
S45	0	"5348990".pn. and mold	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/26 14:16
S46	0	"5348990".pn. and mold \$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/26 14:16

S47	56	liquid near crystal near polyester and glass near (sphere or balloon) and glass near fiber	US-PGPUB; USPAT	OR	ON	2009/01/27 11:16
S48	14072	424/486 528/272 528/294 525/392 430/137.15 428/220	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2009/02/05 10:17
S49	14072	S48	US-PGPUB; USPAT	OR	ON	2009/02/05 10:17
S50	7	((SATOSHI) near2 (MUROUCHI)).INV.	US-PGPUB; USPAT	OR	ON	2009/02/05 10:17
S51	53	((TOSHI O) near2 (NAKAYAMA)).INV.	US-PGPUB; USPAT	OR	ON	2009/02/05 10:17
S52	7	((YOSHIKUNI) near2 (YAMADA)).INV.	US-PGPUB; USPAT	OR	ON	2009/02/05 10:17
S53	59	S50 S51 S52	US-PGPUB; USPAT	OR	ON	2009/02/05 10:17
S54	12	hollow near glass and fracture near rate	US-PGPUB; USPAT	OR	ON	2009/06/24 13:31
S55	1	"5348990".pn.	US-PGPUB; USPAT	OR	ON	2009/06/24 13:43
S56	0	vectra same visocity	US-PGPUB; USPAT	OR	ON	2009/06/24 13:48
S57	30	vectra same viscosity	US-PGPUB; USPAT	OR	ON	2009/06/24 13:49
S58	3	vectra same hoechst same viscosity	US-PGPUB; USPAT	OR	ON	2009/06/24 13:54
S59	1	"5348990".pn. and void	US-PGPUB; USPAT	OR	ON	2009/06/24 14:05
S60	523	(hollow or balloon or microsphere or bubble) near glass same (fracture or broken or crush)	US-PGPUB; USPAT	OR	ON	2009/06/24 14:08
S61	93	(hollow or balloon or microsphere or bubble) near glass same (fracture or broken or crush) and dielectric	US-PGPUB; USPAT	OR	ON	2009/06/24 14:09
S62	3	(hollow or balloon or microsphere or bubble) near glass same (fracture or broken or crush) and dielectric and liquid near crystal	US-PGPUB; USPAT	OR	ON	2009/06/24 14:09

S63	17	("3316139"   "4134848"   "4417020"   "4429078"   "4556603"   "4692480"   "4837251"   "5124397"   "5126192").PN. OR ("5348990").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/24 14:21
S64	1388	"liquid crystal polyester"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/24 14:37
S65	4	"liquid crystal polyester" near polyethylene near terephthalate	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/24 14:37

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L9	0	"wholly aromatic".clm. and "fracture rate". clm.	USPAT; UPAD	OR	ON	2010/01/19 11:42
L10	356	"wholly aromatic".clm.	USPAT; UPAD	OR	ON	2010/01/19 11:42
L11	4	("5663276" "5767223" "6268419" "6296950").pn.	USPAT; UPAD	OR	ON	2010/01/19 11:43

1/19/2010 11:44:27 AM

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 \10519046\_\_dielectric liquid crystal.wsp